

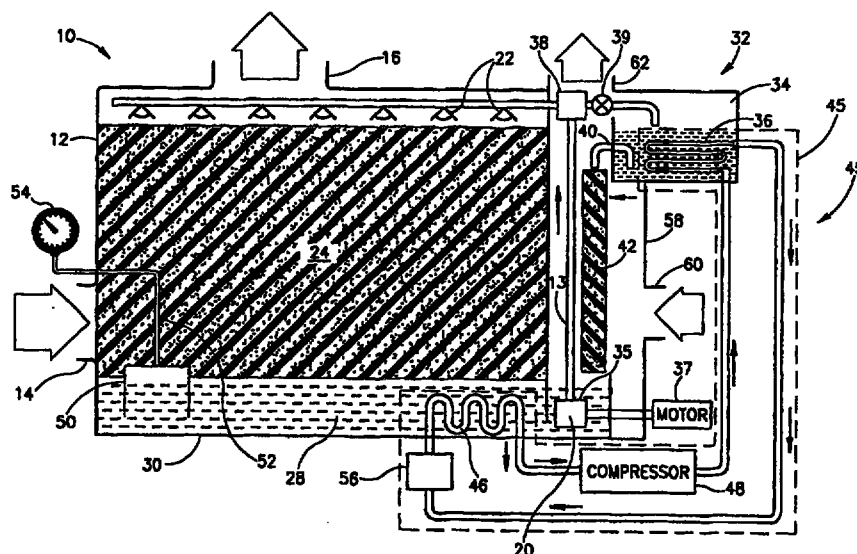


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(54) Title: DEHUMIDIFIER SYSTEM



(57) Abstract

A dehumidifier system (10) comprising: a dehumidifying chamber (12) into which moist air is introduced and from which less moist air is removed after dehumidification; a desiccant solution (28) situated in at least one reservoir (30); a first conduit (13) via which desiccant solution (28) is transferred from the at least one reservoir (30) to the dehumidifying chamber (12), said solution being returned to said at least one reservoir (30) after absorbing moisture from the moist air; a regenerator (32) which receives desiccant solution from said at least one reservoir and removes moisture from it; a second conduit via which desiccant is transferred from the at least one reservoir (30) to the regenerator (32), said solution being returned to said at least one reservoir after moisture is removed from it; and a heat pump (44) that transfers heat from the solution in the first conduit to the solution in the second conduit.